FORSTER BROTHERS

HEADSPACE GAUGES are used to accurately measure and test the length of the chamber of a rifle. Such gauges are so constructed as to measure the headspace or length of the chamber only. The other dimensions of the gauges are purposely smaller than normal so as to avoid possible interference which might produce a false gauging. A gauge will show the chamber to be of true dimensions if, when the bolt is closed with very gentle finger pressure, the face of the bolt can be felt to just contact or barely press on the head of the gauge. When a rifle is turned out by the manufacturer it is made to the minimum or "GO" size of chamber. The high pressures of the first few "proof" loads usually lengthen the chamber several thousandths of an inch, while thereafter the chamber dimensions remain more stable. Gradually, however, as the rifle is fired repeatedly, the length of the chamber increases so that in due time the chamber will elongate to the point where the rifle no longer possesses its original accuracy and finally becomes unsafe. In a loose chamber gas will escape in abnormal amounts at the mouth of the case, which will cause faster erosion of the barrel and mediocre accuracy.

Obviously the value and accuracy of testing a rifle chamber depends, first of all, upon accurate gauges. Close dimensional tolerances have been set up for the various calibers and FORSTER BROTHERS' gauges are manufactured to these high standards. The gauges are hardened and accurately ground. Their use when rechambering a rifle is a positive "must" in order that the rifle may readily and safely accept the cartridge for which it is chambered. Thereafter a rifle should be checked periodically to make sure that the headspace has not increased beyond the limits of accuracy and safety.

SUGGESTIONS ON THE PROPER USE OF FORSTER BROTHERS' HEADSPACE GAUGES

1. NEVER JAM OR CLOSE THE BOLT HANDLE DOWN HARD ON A GAUGE.

2. For best results it is advisable to remove the firing pin assembly and extractor from the bolt. Try the bolt in the action without a gauge and notice that the bolt handle bottoms against the receiver in the closed position. The bolt must work freely in the receiver as it is impossible to "feel" a gauge properly with a tight or sticky bolt. Now you are ready to check with the gauges. NEVER JAM OR CLOSE THE BOLT HANDLE DOWN HARD ON A GAUGE.

3. The Remington Model 30 and the Enfield rifle have spiral locking lug seats and the bolt advances toward the chamber until the bolt handle touches the side of the receiver. When checking these rifles, extra care should be taken to see that the gauge is not "forced" and a false gauging obtained.

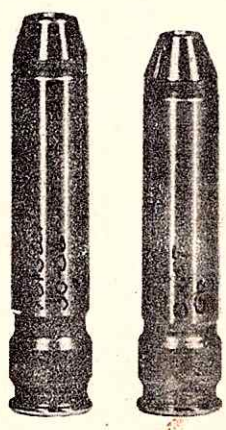
4. A rifle having correct headspace should close easily and without "feel" on the "GO" gauge, but should NOT close on the "NO-GO" gauge. If it does close on the "NO-GO" gauge, but NOT on the "FIELD" gauge, it is considered still serviceable, although not advisable to use for best accuracy. Any rifle that will close on the "FIELD" gauge should not, under any circumstances, be fired as it is DANGEROUS to do so. The only remedy is the substitution of a longer bolt or to have the barrel cut off one thread and rechambered by a competent gunsmith.

FORSTER BROTHERS' gauges are made in popular calibers to completely cover the requirements of gunsmiths doing barrel fitting. The average gun owner needs only the three standard lengths, "GO", "NO-GO" and "FIELD" gauges. If economy demands the purchase of only a single gauge, we suggest the "NO-GO" length in your particular caliber. The price per single gauge is $3.75 or three gauges, any size, for $10.00, postpaid. Available sizes are listed below.

CALIBER	"GO"	"NO-GO"	"FIELD"
30-'06 and .270 Winchester	1.940"	1.946"	1.950"
8mm x 57 Mauser	1.896"	1.901"	1.905"
.257 Roberts and 7mm. Mauser ...	1.794"	1.800"	1.804"
.300 Savage	1.597"	1.602"	1.606"
.220 Swift	1.806"	1.810"	1.814"
.250 Savage (26½° shoulder angle)	1.574"	1.579"	1.583"
.22 Varminter (28° shoulder angle)	1.574"	1.579"	1.583"

NOTE

30-'06 and .270 Winchester can also be supplied in intermediate sizes 1.942", 1.944" and 1.948". All listed calibers can be supplied in special lengths of .004" shorter than "GO", for use by gunsmiths in rebarreling work.



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